Anh Hoang Nguyen’s Resume

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# Introduction

I actively work on full-stack web applications, micro-service architecture, API development and machine learning research projects in natural language processing (NLP).

I love collaborating with peers and like-minded people to create meaningful projects.

# Professional Experience

## SimWell (Laval, QC.)

### Simulation Software Consultant – MITACS Research Internship – (Jan 2024 – TBD)

* Design & develop a distributed, full stack microservice architecture for digital twin solution models.

## Microsoft + Nuance (Montreal, QC.)

### Software Developer – Internship – (Jan 2023 – May 2023)

* Developed a new authentication micro-service platform using Nestjs and gRPC.
* Configured and deployed using Kubernetes and Helm.
* Implemented security enhancements for service-to-service connections across clusters with TLS.
* Automated patching process for multiple Linux VM nodes with Ansible.

## Genetec (Saint-Laurent, QC.)

### Software Developer – Internship – (May 2022 – September 2022)

* Completed 2 projects involving migration to on-premises Docker container cluster.
* Created and maintained software build/release pipelines for cross-platform software projects.

### IT Specialist – Internship – (August 2021 – December 2021)

* Performed infra and workflow improvements, tested hardware/software compatibility, managed Active Directory and Endpoint, and utilized shell scripting.

# Notable Projects

* FGO Gacha Simulator – <https://reroll.ing> (Go Gin, Python, Nextjs, Docker, Github Actions, Nginx)
* Personal URL Shortener – <https://anh.to> (Cloudflare Workers, KV store)
* Portfolio Site – [https://aaanh.com](https://aaanh.com/)
* GPT Web Client - <https://gpt.aaanh.app> (OAI API)
* Script Convenience Store - <https://scripts.aaanh.app> (Rust, automation, bash, pwsh scripting)
* GCES Concordia - <https://gcesconcordia.com> (Nextjs, Tailwindcss, SanityCMS)

# Skills

* Languages: TypeScript, Java, C, C++, Python, Go, Rust, HTML, CSS, PowerShell, bash.
* Platforms: Linux, Windows, macOS, qemu, Hyper-V, Docker, cri-o, kubernetes, helm, Ansible.
* Networking: nginx, calico, caddy, firewalld.
* Security: (m)TLS, OAuth2, SAML2, jwt, OIDC.
* Database: postgres, mysql, CodmosDB, mariadb, redis, memcache.

# Volunteering

* VP of Technology at [Gina-Cody School Entrepreneurship Society at Concordia University](https://gcesconcordia.com/)

# Education

* Bachelor of Engineering (2020 – 2024), Concordia University, Montreal, QC.
* DEC in Applied Sciences (2017 – 2020), John Abbott College, Sainte-Anne-de-Bellevue, QC.